

WHAT IS CLAIMED IS:

1. A nanoprint apparatus for forming a fine structure on a substrate, in which the substrate and a mold formed on its surface with fine concavities and convexities are heated and pressed to each other through the intermediary of a buffer member, characterized by a mechanism for successively replacing the buffer member with new one after heating and pressing.

2. A nanoprint apparatus as set forth in claim 1, characterized in that the buffer member is larger than a pattern forming area of the mold, but smaller than an external shape of the substrate and the external shape of the mold.

3. A method of transferring a pattern with the use of a nanoprint apparatus and with the use of a substrate, a mold formed on its surface with fine concavities and convexities and a buffer member so as to form a fine structure on the substrate, characterized in that:

a plurality of buffer members held on a conveying film are used, with one of which the buffer member is successively replaced after heating and pressing.

4. A method of transferring a pattern as set forth in claim 3, the buffer member is larger than a pattern forming area of the mold, but smaller than an external shape of the substrate and the external shape

of the mold.

5.           A method of transferring a pattern, as set forth in claim 3, characterized in that pattern transcription is carried out optical curing after press molding a resin substrate or a resin film on the substrate.

6.           A method of transferring a pattern as set forth in claim 3, characterized in that pattern transcription carries out by heating a resin substrate or a resin film on a substrate so as to deform the same.

7.           A method of transferring a pattern as set forth in claim 3, characterized in that pattern transcription is carried out by irradiating a light beam from above the mold so as to optically cure a resin substrate or a resin film on the substrate.